

**Remarks**

Claims 1-19 are pending. Claims 1-19 are rejected. All objections and rejections are traversed.

The Examiner states that claims 1-14 of co-pending U.S. Patent Application No. 10/639,951 encompass claims 1-19 of the present application.

Applicants disagree.

The claims in the present application acquire and encode *compressed* videos. There are no claims in the co-pending application that specifically claim compressed videos.

There is no claim in 10/639,951 that stores the plurality of compressed output videos in a persistent memory.

There is no claim in 10/639,951 in which the compressed frames are intra-frames.

There is no claim in 10/639,951 in which the compressed videos are JPEG videos.

There is no claim in 10/639,951 in which the compressed videos are MPEG videos.

There is no claim in 10/639,951 in which the compressed videos are acquired by surveillance cameras.

There is no claim in 10/639,951 which acquires the plurality of compressed videos with a plurality of broadcast studio cameras.

There is no claim in 10/639,951 in which the temporal distortion of a compressed video is determined from compressed-domain information of the intra-frames.

There is no claim in 10/639,951 in which the compressed domain information includes DCT coefficients.

There is no claim in 10/639,951 in which decoding partially the plurality of compressed videos before applying the joint analysis.

There is no claim in 10/639,951 in which the compressed frames are inter-frames.

There is no claim in 10/639,951 in which the temporal distortion is determined directly from motion vectors in the inter-frames.

There is no claim in 10/639,951 in which the compressed frames are MPEG-1/2 P/B-frames.

There is no claim in 10/639,951 in which the compressed frames are MPEG-4 P/B-video object planes.

There is no claim in 10/639,951 in which the temporal distortion  $E\{\Delta^2 z_{i,k}\}$  between a frame  $i$  and frame  $k$  is estimated by  $E\{\Delta^2 z_{i,k}\} = \sigma_x^2 \sigma_{\Delta x_{i,k}}^2 + \sigma_y^2 \sigma_{\Delta y_{i,k}}^2$ , where  $(\sigma_x^2, \sigma_y^2)$  represent a variances for  $x$  and  $y$  spatial gradients in frame  $i$ , and  $(\sigma_{\Delta x_{i,k}}^2, \sigma_{\Delta y_{i,k}}^2)$  represent variances for motion vectors between the frame  $i$  and frame  $k$  in  $x$  and  $y$  direction.

There is no claim in 10/639,951 wherein spatial gradients are determined directly from DCT coefficients in the frames.

There is no claim in 10/639,951 in the output compressed videos are transcoded.

From the above, it is clear that the claims in the present applications are patentably distinct from the co-pending application 10/639,951.

However, to expedite the prosecution of the present application, Applicants respectfully submit the attached terminal disclaimer in compliance with 37 C.F.R. 321(c), as the present application is commonly owned with the present application.

It is believed that this application is now in condition for allowance. A notice to this effect is respectfully requested. Should further questions arise

concerning this application, the Examiner is invited to call Applicants' attorney at the number listed below. Please charge any shortage in fees due in connection with the filing of this paper to Deposit Account 50-0749.

Respectfully submitted,  
Mitsubishi Electric Research Laboratories, Inc.

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